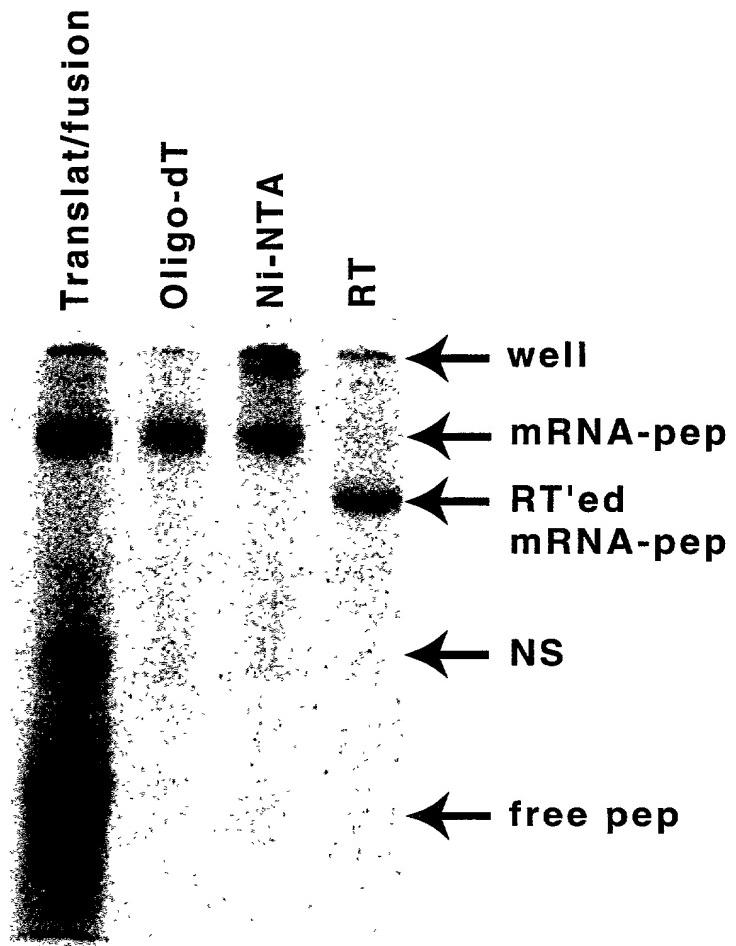


Fig. 1A



**Fig. 1B**

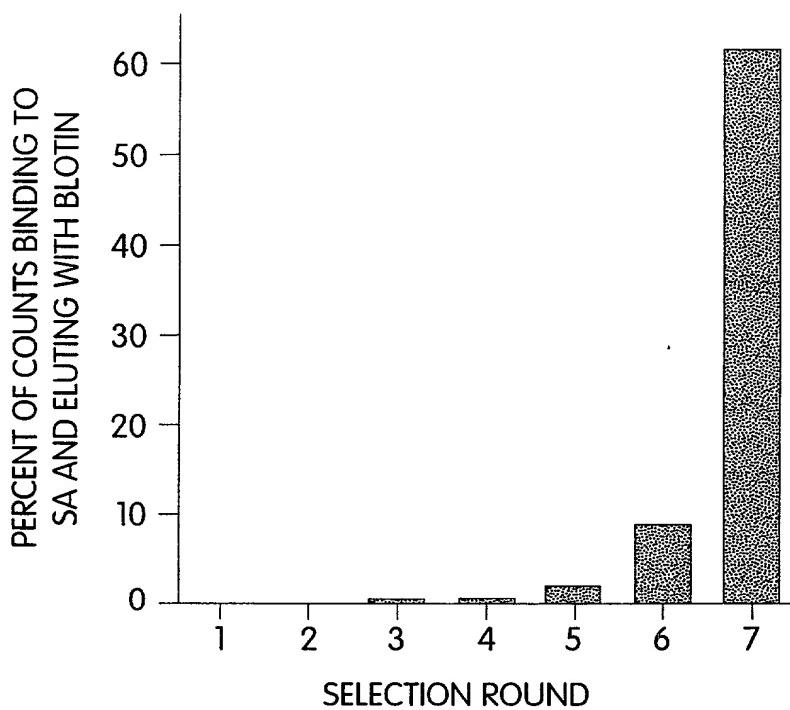


Fig. 2A

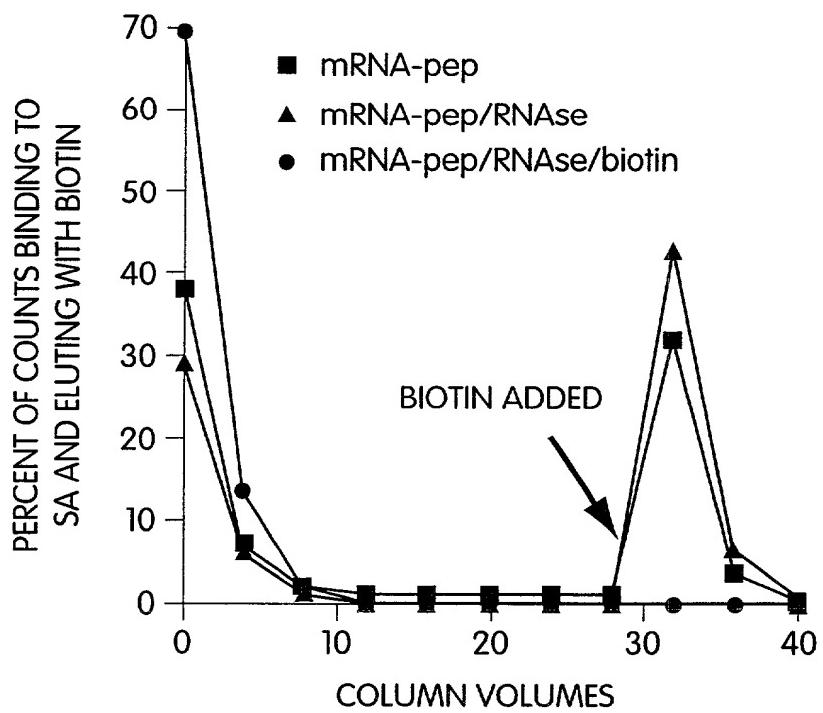


Fig. 2B

name #	SEQ	ID NO:
SB1	3	MDEKTHCTISMNGAVPLVPHH <b>PQGDPLRLLJHRPQPALLVVR</b> <b>HPQGDLYVALVEHHEGVDRGLVALPELHAELGEPYGDLYQGPVEQWQGVYDALLVMRLPPS</b>
SB2	2	MDEKTHCFHPGDIHLVRLVEIQAIAEGLQRQGGRQPHRLPRRPHLQLLDEA <b>HPQAGPLRERAHQVDGRILLQFQGDRLQQFQDHPLLELMVMRLPPS</b>
SB3	4	MTRRPTASSSSCYRHLLLRQGEHGHQALEDRDKARHVRVLVEGDIVYLGGDLRLLDHRPLVYD <b>HPQAGLVLPIHGGLRLLQFQGDRLQFQGDRLGLAVHHH</b>
SB4	1	MDEKTHMGISTWRGEPLL <b>HPQAGRLPDLRRRAHRRILGAEPGGDVHDGLRLLDHRPLVYD<b>HPQGPLQRGDLPLQVVPVLVRHAAHVVLGLGLAAATIT</b></b>
SB5	3	MDEKTHWNVV <b>HPQGDLLV</b> R <b>HPQAGRLPDLRRRAHRRILGAEPGGDVHDGLRLLDHRPLVYD<b>HPQGEALDQARQPHLLELHHRALPPLVYD<b>HPQGDGLDQPLGRH</b>ALDGEVREGDRPLDQGGEIDLGAVALDDGEVLDGLVHVGTVHVDPLVCGCHHH</b></b>
SB6	1	MDEKTHWLNNEELLARLDLREGEDDPLVLR <b>HPQGDGLDQPLGRH</b> ALDGEVREGDRPLDQGGEIDLGAVALDDGEVLDGLVHVGTVHVDPLVCGCHHH
SB7	1	MDEKTHWFGTUNSFPTHMSAVGNGKLDCSFNMNLSLNHMLSSGPDGALDDQ <b>HPQGDALVGRDDGVQALRLEGQHQRRLAQRAADRHRQLVMRLPPS</b>
SB8	1	MDEKTHCTTEINFSFTHKWLHH <b>HPQGDALLDDGVRPHHPLATEGGGLDQGLIGHRRGVVAERLARDPEVLEGIVERTHGLVPRLRHGGGERHAEPLVMRLPPS</b>
SB9	1	MDEKTHCNTGLYDGAADCFCNELINKDVAPLVEGRHDLVEGLLIER <b>HPQGDPLVAHRQLVHPLLGRGERHRRALV</b> VPQEHQPHRLQPVVDLGRRRLVMRLPPS
SB10	1	MDEKTHWHERAQELVGGLL <b>HPQRLILLEPRGPRPLRGLVHBERGHQDQPLAGRVEAADGGLLRGGGELEFLVREGEDHLEPLDDEL</b> DAGPRLGVWRLPHHH
SB11	1	MDEKTHWHERVTHLADGLE <b>QHPQGQRRLPLVERHQRVPRGLV</b> REHQEGPLPLEHPAGVHIVRLHQGDDDRDVCGDGHGRDVGLEREVGDGPHRLVMRLPPS
SB12	4	MDKDPPLLEEEELRERLV <b>HPQGGLLPLRGQVGHDAERIGAEYDDLRGGLIDEPQR</b> AVALHVPHRVGQRLVTHEVRELDEGLLDQRDDLRQRLYWRLPPS
SB13	2	MEREDEQLIRELREALV <b>DHPQGGAQALHRHDGEHVPLRVRQHRLQPHHLEPQPLGJLQFQHHLFQHRLQFQHHLFQHRLQFQHHLFQHRLQFQHHLFQHRLQFQHHL</b>
SB14	1	MDEKTHRTLSFNDWLQQTAKACMRLVEGL <b>HPQGLVREIEVDVLPLAAEVQQWVGGGLADGEVEQPGGGGLJHRAQRVDHPLDHAQVILGRJLVMRLPPS</b>
SB15	1	MDEKTHWLEDIKGYLKDCKLQDMDFTKDCRSRPRVQQPQLIHDDRGEPVPLLREAGRDIGGLGPRAPRQARPLHGRHDLIHEPLVQ <b>HPQGGLPLVCGCHHH</b>
SB16	1	MDEKTHWVLQL <b>HPQGDRLGPRHGDDVRLVGOGEGVLEGQDQPLRGLPREDEHVRVRALVQDQVRDLAERLVEETDGV</b> VEALRHIGLQDPEPRSGCCHHH
SB17	2	MDEKTHWVGDQEPPLGPLHGGVGEVPGGLVLR <b>HPQDRDLV</b> DGYGPHGRAALARPHRVEVGLHLLLQRGGERLPPDGPRQLGLGGELDRADPAWRLPPS
SB18	1	MDEKTHCAVNNTVGLTHWCHRVAHLQPLD <b>HPQGDHLRLEPLGHALVDPLVQGVEEVVRPLQDVGQVALVEQVAEV</b> GEGLDHEAQGAHGLVMRLPPS
SB19	1	MDEKTTGMWRGGHVVVEGLAGELEQLBARLEH <b>HPQGQREPLVQ</b> EYDVEGQDVLQDHLGVVAGLDDPVEKLITDWEKKFKNSKDCKMTHYLEMDWSSGCHHH
SB20	1	MNEKTHCKLNFKVNIADWLAEEFHGGQQGLJGRRDGVQRLV <b>HPQVERLDRDPLGJGLDRL</b> ELHHRDHLGGEHLLRDHPLEPDDHLVGGGVWRLPPS

3  
Fig.

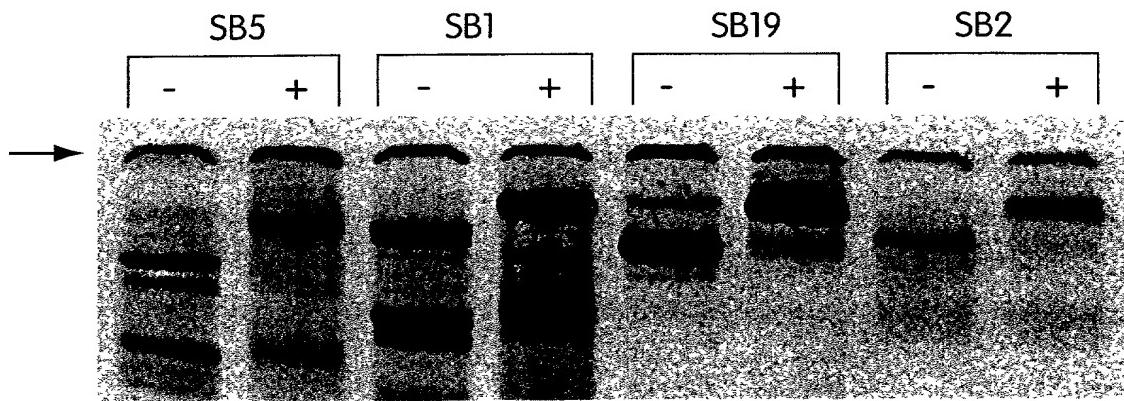


Fig. 4A

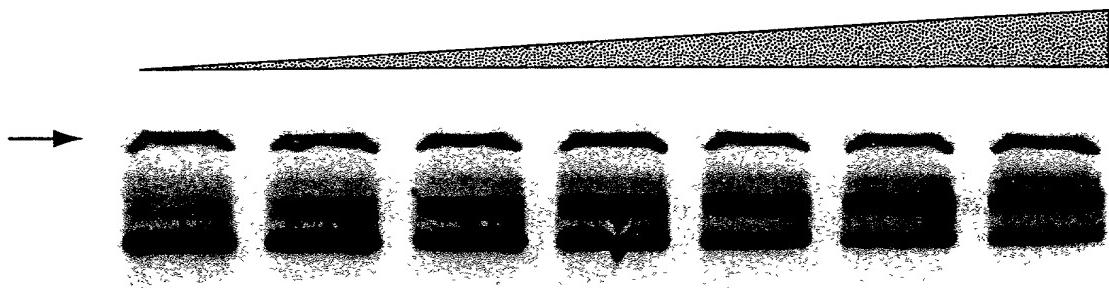


Fig. 4B

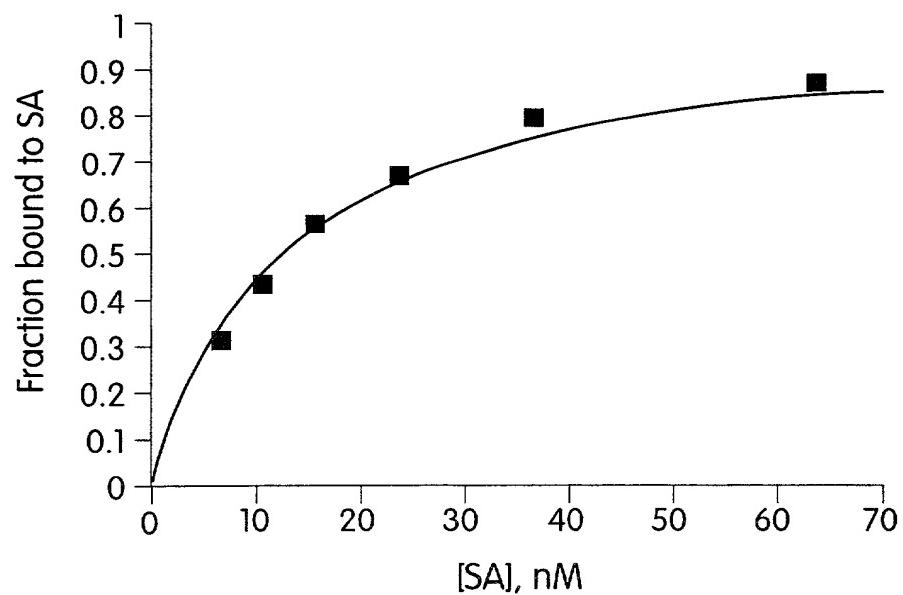


Fig. 4C

mino from amino acid no. in protein from amino acid no. in protein

	% binding	SEQ ID NO:
F1	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVEKLLTDWFKKFKNVSKDCKMTFYLEMYDWSSGGCKLGLG	85 21
C1	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVEKLLTDWFKKFKNV	MMSGGCKLGLG 87 22
C2	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVE	MMSGGCKLGLG 88 23
C3	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQ	MMSGGCKLGLG 89 24
C4	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQ	MMSGGCKLGLG 88 25
M1	MDEKTTGWRGGHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQ	MMSGGCKLGLG 0.065 26
N1 MD	GHVVEGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVEKLLTDWFKKFKNVSKDCKMTFYLEMYDWSSGGCKLGLG	MMSGGCKLGLG 69 27
N2 MD	EGLAGEILEQRLARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVEKLLTDWFKKFKNVSKDCKMTFYLEMYDWSSGGCKLGLG	MMSGGCKLGLG 30 28
N3 M	EIEQLRARLEHH <u>PQ</u> QREPLVQEVEDVDEGLVQDLHGVVAGLLDPVEKLLTDWFKKFKNVSKDCKMTFYLEMYDWSSGGCKLGLG	MMSGGCKLGLG 0.058 29

Fig. 5

(SEQ ID No. : 37)

upper frame lower frame upper frame lower frame upper frame lower frame upper frame lower frame

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**Fig. 6A**

## Fig. 6A (continued)

CGCAAAATTGTCCGGCGATAATTCTCGGCCGATCAACTGGGTGCCAGCGTGGTGTCCGATGGTAGAACGAAGGGC  
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AATCGACGCTCAAGTCAGAGGTGGGAAACCCGACAGGACTAAAGATAACGGGATACCTGTCGGCTTACCG  
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CAAACCACCGCTGGTAGGGGTGTTTGTGCAAGCAGGAGATTACGGCAGAAAAAGGATCTAAGAAGATCC  
TTTGATCTTCTACGGGTCTGACGCTCAGTGGAACGAAAACCTACAGTTAAGGGATTGGTCA  
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GTCAAGACTAAACTGGCTGACGGAAATTATGGCTCTTCCGACCATCAAGGATTATCCGTA  
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Fig. 6A (continued)

seq\_id: 38  
begin: 1 end: 1000

(SEQ ID No.: 38)

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LIAADGGYAFKYENGKYDIKDVGDNAGAKAGLTFLDIKNKHMNADTDYSIAEAFAFNKGETAMTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPKFVGVLSSAGINAASPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYYEEELAKDPRIAATMENAQRGEIMPNIPQMSAFWYAVRTAVINAASGRQTVDDEALKDAQTNSSSGGSGMDEKTGWRGGHVVEGIALEQLRARLIEHHPQGOREPFGSGHHHHHEFLVPRGSMDPCCVKCKVAPRNWKVKNKHRLIYNMCKTCFNNNSIDIGDDTYHGHD

## Fig. 6B

(SEQ ID No.: 39)

MDPCVKCKVAPRNWKVKNKHRLIYNMCKTCFNNNSIDIGDDTYHGHD

## Fig. 6C

agouti short brown short white in agouti short brown short white in  
sp. sp.

M D E K T T G W R G G H V V E G L A G E L E Q L R A R L E H H P Q G Q R E P

Fig. 7A

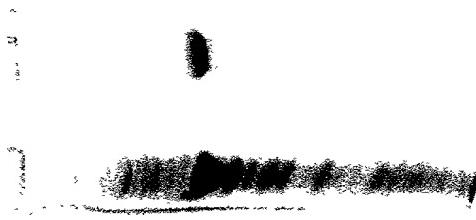
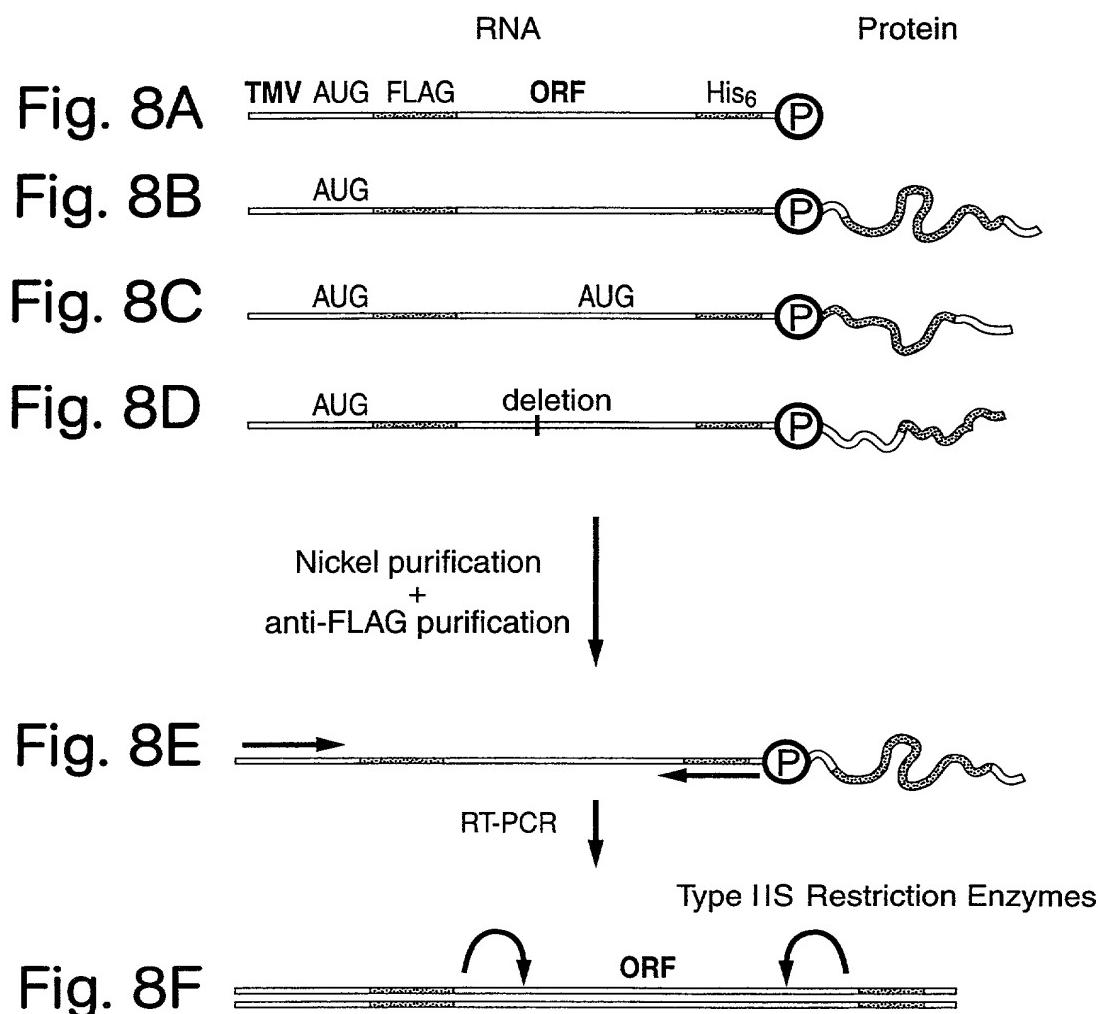


Fig. 7B



(SEQ ID No.:40)

On the other hand, the *liver* is a very important organ, and it is the only one which can be easily examined.

Fig. 9A

Period	Year																		
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1	1960	2	1961	3	1962	4	1963	5	1964	6	1965	7	1966	8	1967	9	1968	10	1969
1	1970	2	1971	3	1972	4	1973	5	1974	6	1975	7	1976	8	1977	9	1978	10	1979
1	1980	2	1981	3	1982	4	1983	5	1984	6	1985	7	1986	8	1987	9	1988	10	1989
1	1990	2	1991	3	1992	4	1993	5	1994	6	1995	7	1996	8	1997	9	1998	10	1999
1	2000	2	2001	3	2002	4	2003	5	2004	6	2005	7	2006	8	2007	9	2008	10	2009
1	2010	2	2011	3	2012	4	2013	5	2014	6	2015	7	2016	8	2017	9	2018	10	2019
1	2020	2	2021	3	2022	4	2023	5	2024	6	2025	7	2026	8	2027	9	2028	10	2029

Fig. 9A (continued)

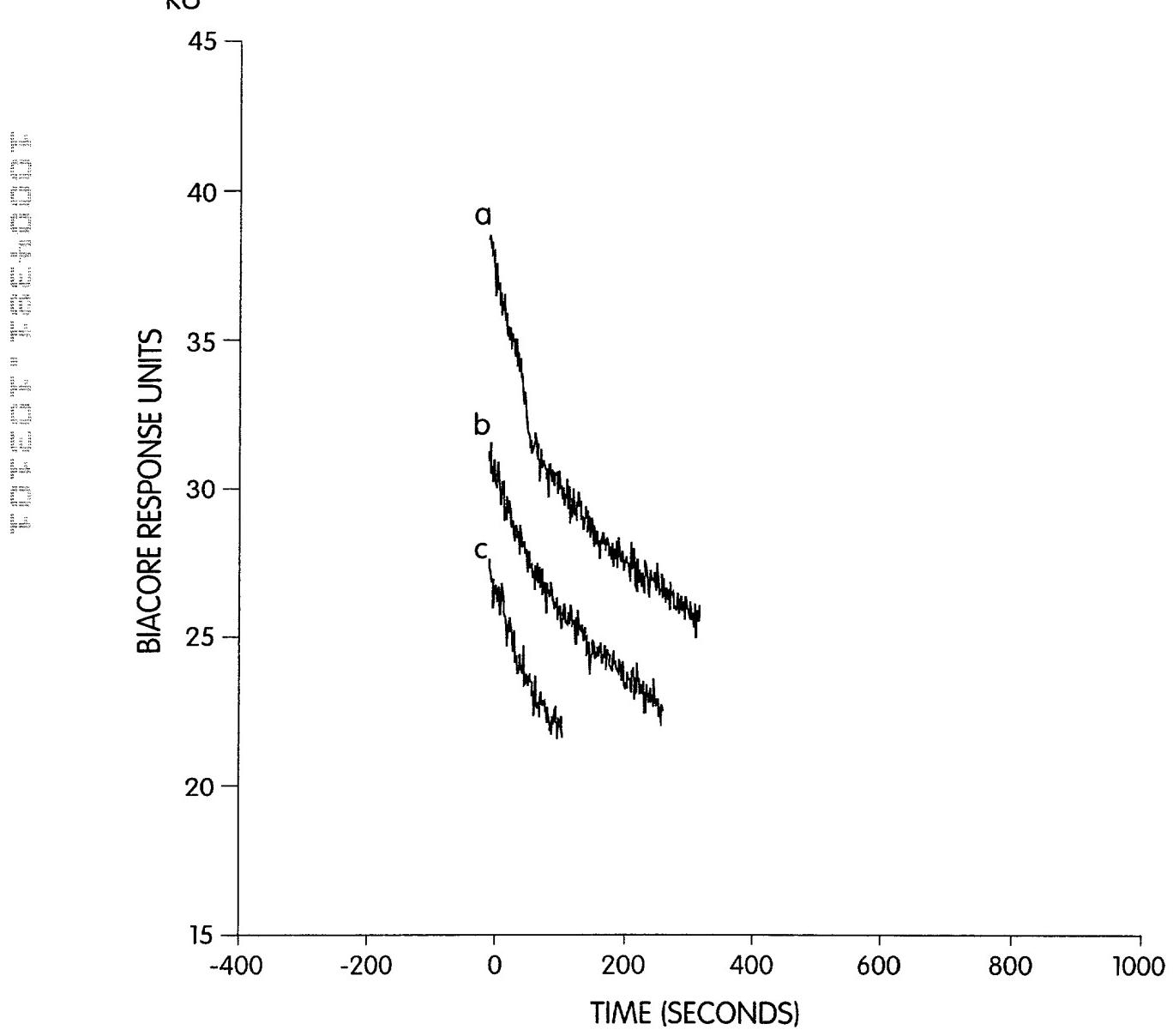
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Fig. 9A (continued)

(SEQ ID No. :41)

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VNYYGVTVLPTFKGOPSKPVGVLSAGINAASPNKELAKEFLENYLTDLEGLEAVNKDKPLGAVALKSYEEELAKDPRIA  
TMENAQKGEIMPNI PQMSAFWYAVRTAVINAASGRQTVDDEALKDAQTNSSGGSGSGMDEKTTGWRGGHVVEGLAGELEQ  
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**Fig. 9B**



**Fig. 10A**

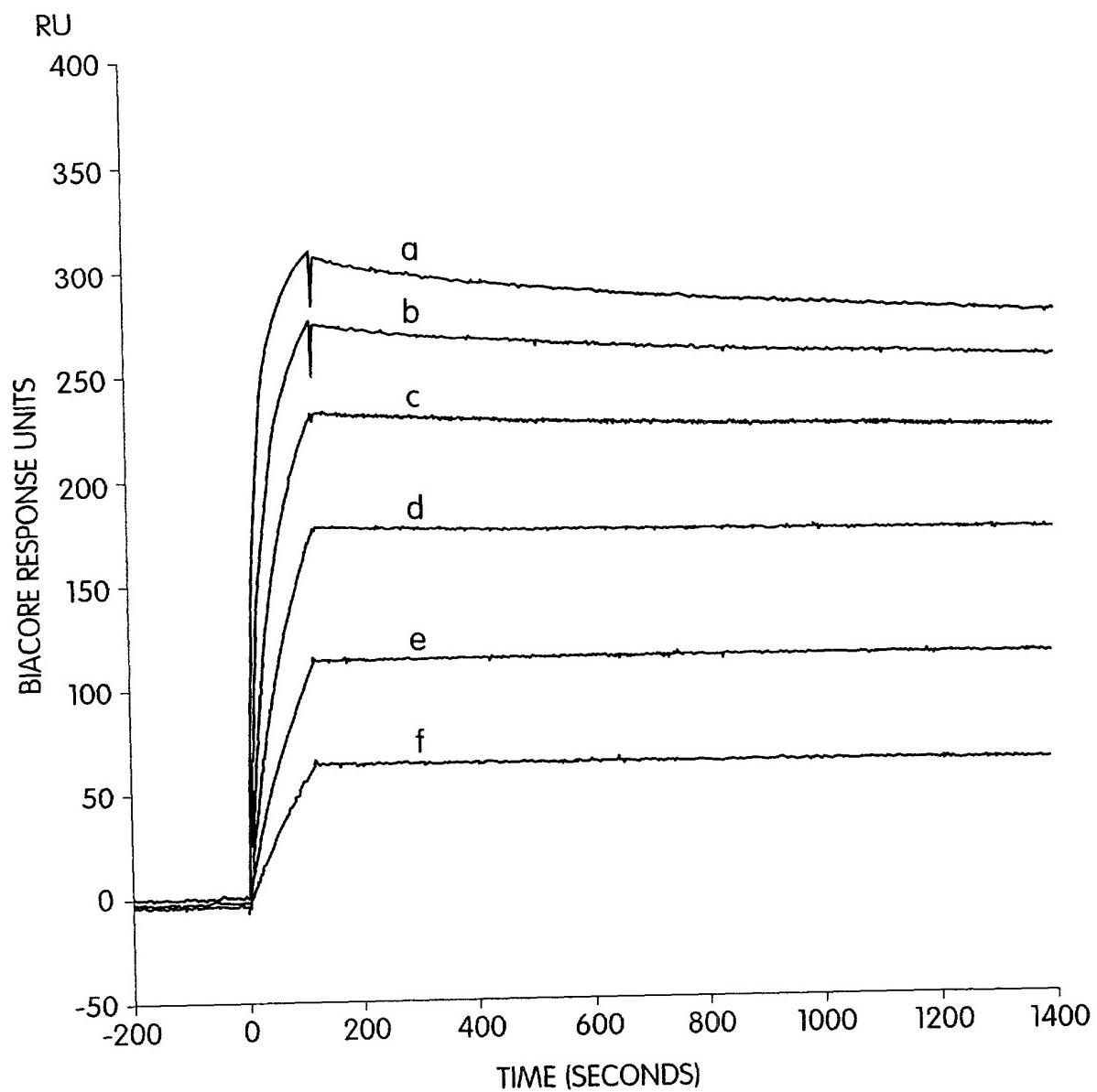
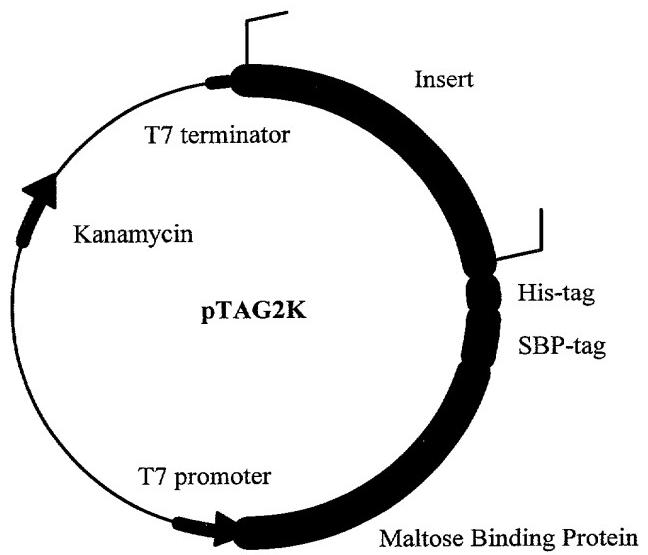


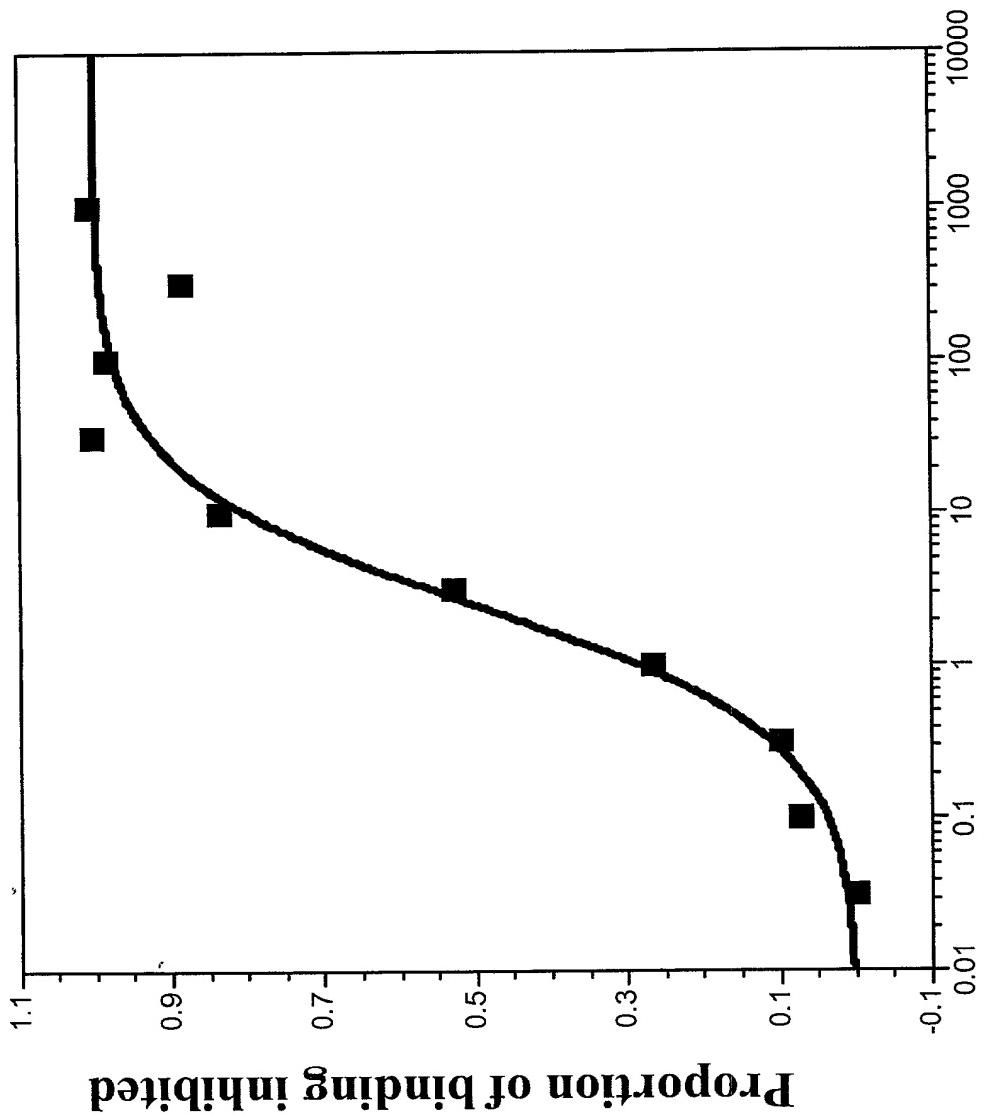
Fig. 10B



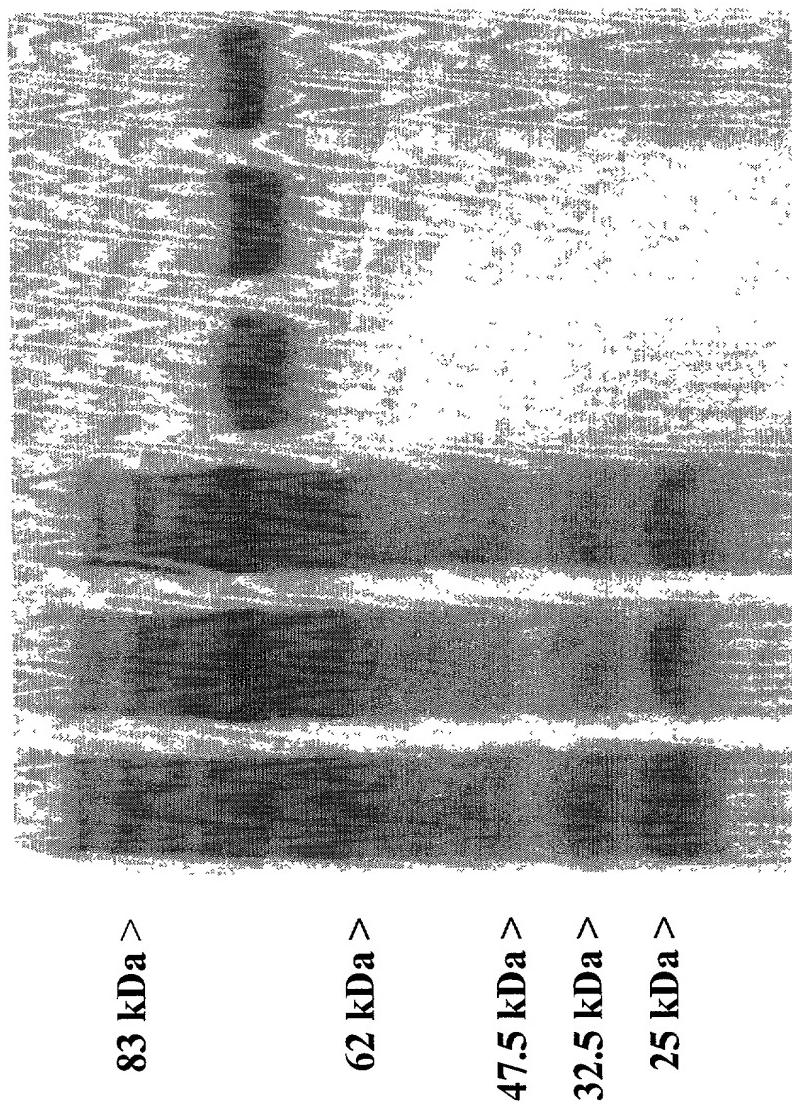
**Fig. 11**

**Fig. 12**

[Streptavidin], nM



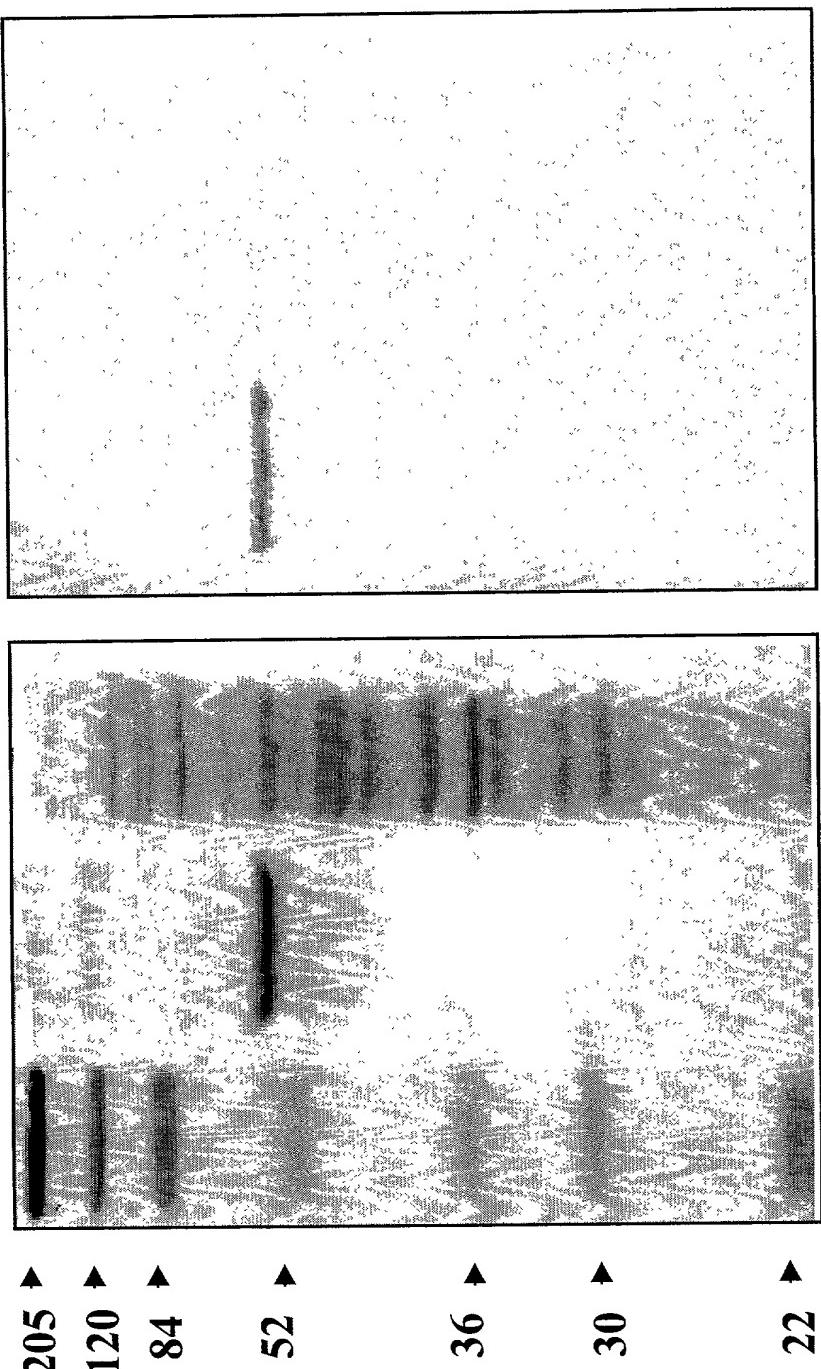
**Fig. 13**



Blot developed with SA-HRP

Total protein stain

Fig. 14



*E. coli* extract

MBP-SBP

205  
120  
84  
52  
36  
30  
22

*E. coli* extract

MBP-SBP

Marker

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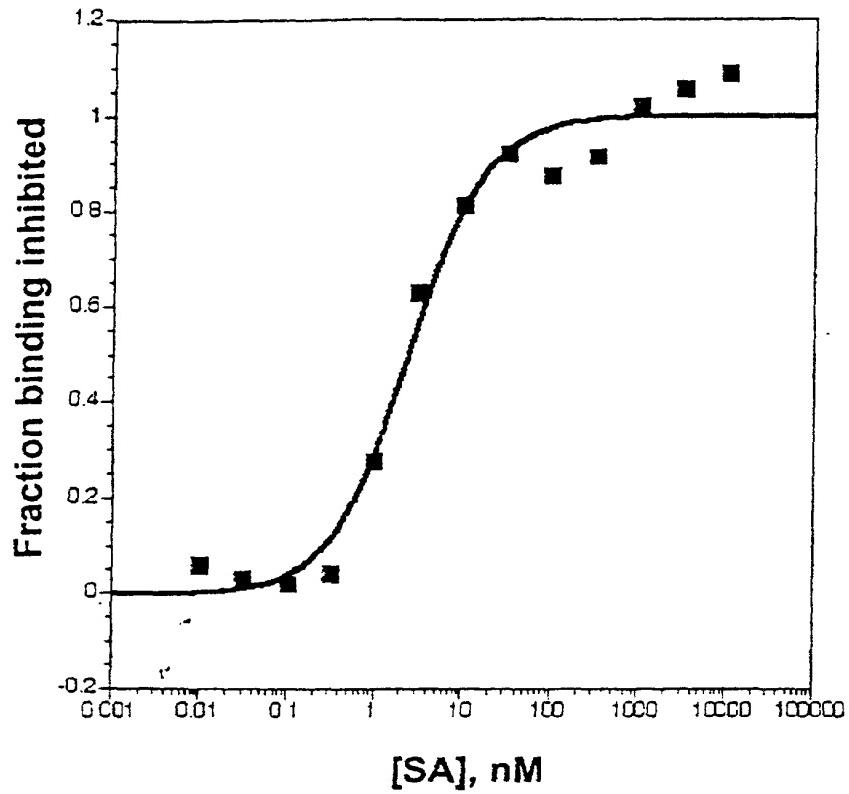


Fig. 15